

Appl. No. 09/745,151
Amendment dated October 13, 2004
Reply to Office Action dated July 13, 2004

Amendments to the Claims

1. (Presently Amended) A GPRS capable mobile terminal, comprising:
processing circuitry for receiving and transmitting data and voice signals; and
QoS logic circuitry for determining an implied QoS rating based upon a TLLI number received from a base station wherein the QoS logic circuitry determines a first QoS rating based upon the TLLI number belonging to a first set of numbers and wherein the QoS logic circuitry determines a second QoS rating based upon the TLLI number belonging to a second set of numbers.
2. (Presently Amended) The GPRS capable mobile terminal of claim 1 wherein the first and second sets of numbers are each characterized by belonging to a range of TLLI numbers wherein each range of TLLI numbers reflects QoS rating for the GPRS capable mobile terminal~~further comprising audio processing circuitry for converting analog voice signals into communication signals and for converting communication signals into analog voice signals.~~
3. (Presently Amended) The GPRS capable mobile terminal of claim 2 further comprising a third set of numbers reflects a third QoS rating.~~1 further comprising a microphone coupled to provide analog voice signals to the audio processing circuitry.~~
4. (Presently Amended) The GPRS capable mobile terminal of claim 1 wherein the first set of numbers consists of all odd numbers and the second set of numbers consists of all even numbers.~~2 further comprising a speaker coupled to receive analog voice signals from the audio processing circuitry.~~
5. (Original) The GPRS capable mobile terminal of claim 1 wherein the QoS logic circuitry defines logic that prompts the mobile terminal to transmit a previously received TLLI number to a base station each time it registers its presence.
6. (Original) The GPRS capable mobile terminal of claim 1 wherein the QoS logic circuitry defines logic that prompts the mobile terminal to transmit a previously received TLLI number to a base station each time it requests resources to transmit communication signals.

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7. (Original) The GPRS capable mobile terminal of claim 1 wherein the QoS logic circuitry defines logic that prompts the mobile terminal to determine a QoS rating assigned to it based upon a value of a received TLLI number and, responsive thereto, to transmit communication signals at a data rate that corresponds to the determined QoS rating.

8. (Presently Amended) A method in a mobile terminal for determining an assigned quality of service (QoS) rating and for requesting system resources, comprising:
receiving a temporary logical link identifier (TLLI) within a Gb interface signal from a base station, which TLLI was generated by a serving GPRS support node; and
inferring an assigned QoS rating by analyzing the value of the TLLI to determine a TLLI grouping and corresponding QoS rating by determining whether the TLLI number is from one of a first or a second set of TLLI numbers.

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9. (Original) The method of claim 8 wherein the mobile terminal determines that it has been assigned a first QoS rating if the TLLI has an odd value and a second QoS rating if the TLLI has an even value.

10. (Original) The method of claim 8 wherein the mobile terminal determines that it has been assigned a first QoS rating if the TLLI has an even value and a second QoS rating if the TLLI has an odd value.

11. (Original) The method of claim 8 wherein the mobile terminal determines that it has been assigned a first QoS rating if the TLLI has a value within a first range of values and a second QoS rating if the TLLI has a value in a second range of values.

12. (Original) The method of claim 8 further including the step of transmitting the received TLLI number to the base station each time the mobile terminal requests a communication link for transmitting communication signals.

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13. (Original) The method of claim 8 further including the step of transmitting the received TLLI number to a new base station each time the mobile terminal registers its presence with the new base station.

14. (Presently Amended) A GPRS capable mobile terminal, comprising:
radio circuitry for transmitting and receiving communication signals over a wireless medium;
audio circuitry for converting audio signals to sound and sound signals to audio; and
logic circuitry for determining a quality of service (QoS) rating based upon a received communication signal's numerical characteristics by determining whether the TLLI number is from one of a first or a second set of TLLI numbers.

15. (Original) The GPRS capable mobile terminal of claim 14 wherein the logic circuitry determines the QoS rating based upon the numerical characteristics of a received TLLI number.

16. (Presently Amended) The GPRS capable mobile terminal of claim [14]15 wherein the QoS rating is characterized by whether the received communication signal's numerical characteristic is even or odd.

17. (Original) The GPRS capable mobile terminal of claim 14 wherein the QoS rating is characterized by whether the received communication signal's numerical characteristic is within one of a plurality of groups of numbers wherein each group of numbers represents a QoS rating.

18. (Original) The GPRS capable mobile terminal of claim 14 wherein the mobile terminal transmits its QoS rating to a base station every time it requests communication resources.

19. (Original) The GPRS capable mobile terminal of claim 14 wherein the mobile terminal transmits a number whose characteristic reflects its QoS rating to a base station every time it requests communication resources.

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20. (Original) The GPRS capable mobile terminal of claim 19 wherein the number is a TLLI number.

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21. (Presently Amended) A wireless transmitter, comprising:
circuitry for receiving a signal comprising a number reflecting a QoS rating and for determining the QoS rating for wireless transmissions based upon a characteristic of the number; and
circuitry for transmitting, over a wireless communication link, a second signal comprising the number reflecting the QoS rating and for determining the QoS rating for wireless transmissions based upon a characteristic of the number wherein the characteristic identifies a first QoS rating of the mobile terminal based upon the the number belonging to a first set of numbers and wherein the characteristic identifies a second QoS rating of the mobile terminal based upon the the number belonging to a second set of numbers.

22. (Original) The wireless transmitter of claim 21 wherein the number is a TLLI number.
